TIFCS

Thermal Imaging Fire Control System - Gunner Sight

TIFCS is a state-of-the-art, compact, robust, modular, user-friendly gunner sight. A long-range system, it is optimal for both day and night, stationary and on the move operation, and is designed for rapid and high-accuracy target engagement, in all combat scenarios.

Main Advantages & Features

- Unique and modular configuration – add-on system
- Dual-axis stabilized sight
- Advanced 8-12µm thermal channel
- High resolution TV channel (DVO optional)
- Eyesafe long-range laser rangefinder
- Based on mature technology; passed field tests, including firing and environmental conditions
- Integrated electronic control unit
- Compact interface to platform, designed to fit small turrets

Applications

- Main battle tanks
- Armoured fighting vehicles
- Tactical vehicles

Elbit Systems
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TIFCS

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Technical Data

Sight

Line of sight (LOS)	
- Elevation	-10º to +22º
- Azimuth	±3º
LOS stabilization acccuracy	
- Elevation	0.1 mRad
- Azimuth	0.1 mRad
- Sight-to-gun accuracy	0.2 mils

Thermal Imager

Spectral region	8-12µm
Detector type	TDI MCT, 288 x 4 elements
Fields of view (FOV)	
- Wide	10.3º x 6º (± 10%)
- Narrow	3º x 2º (± 10%)

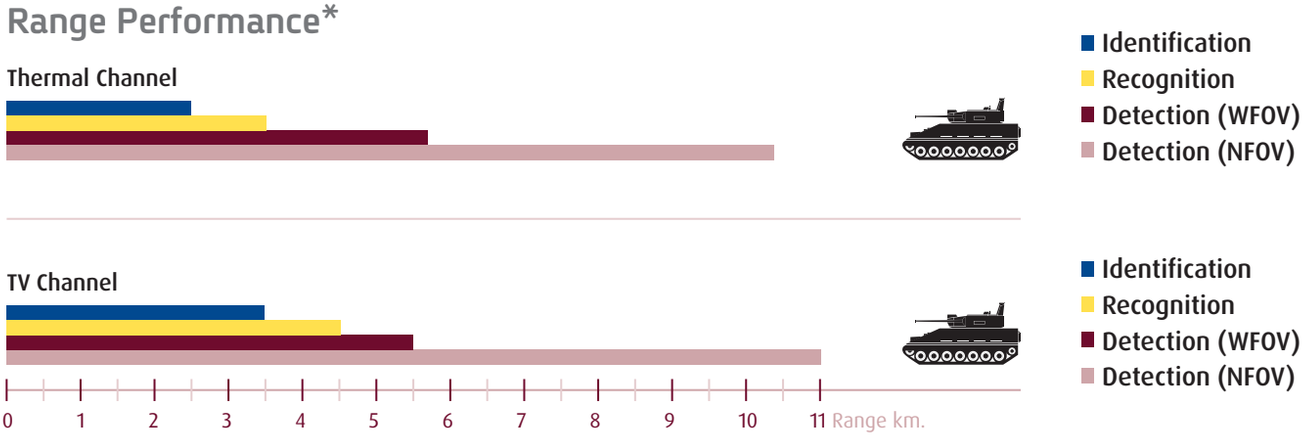
ELRF

Laser wavelength	1535 nm (class 1)
repetition rate	1 pps
Target discrimination	50 meters
Max. target range	9000 m
Range accuracy	± 5 m
Laser safety	Eyesafe Class 1

TV Channel (DVO Optional)

Sensor type	CCD
Spectral band	650-850 nm, monochrome
Resolution	1360 x 1024
Video format	SMPTE 292
Fields of view (FOV)	
- Wide	20º
- Narrow	4.5º
Focus	200 - INF [meter] without adjusting focus

Range Performance*



* *Range performances are defined at the indicated FOV and can be improved to meet the requirements by E-zoom NFOV (2º)*

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